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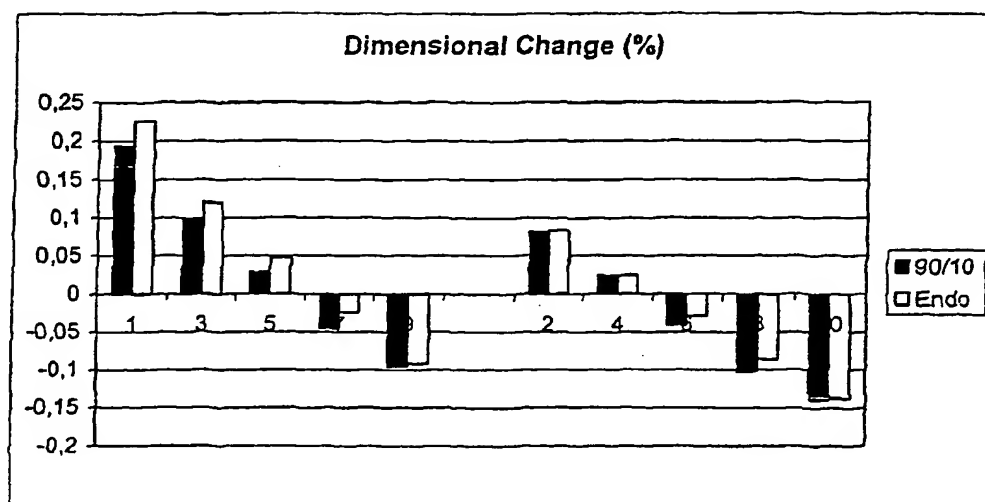
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(54) Title: A METHOD OF CONTROLLING THE DIMENSIONAL CHANGE WHEN SINTERING AN IRON-BASED POWER MIXTURE



(57) Abstract: The invention concerns a method of controlling the dimensional change to a predetermined value including the steps of providing a first powder (A) consisting of an iron based powder(1) and copper in the form of elemental copper (2), or copper diffusion-bonded to said iron-based powder (3) ; providing a second powder (B) consisting of said iron-based powder (1) and a pre-alloyed iron-copper powder (4); mixing said first and second powder mixtures (A) and (B) in proportions resulting in the desired dimensional change adding graphite and lubricant and optionally hard phase materials and other alloying elements to the obtained mixture; compacting the obtained mixture; and sintering the compacted body.



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